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Montana Wheat & Barley Varieties 2001

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Montana Agricultural Statistics Service
Montana Wheat & Barley Committee
American Malting Barley Association, Inc.

Forward

This publication is the result of a June survey of Montana grain growers. It contains names and varietal characteristics of the leading varieties in Montana in 2001. We wish to thank the many farmers who voluntarily provided us the variety information.

Funding for the barley varieties survey was provided by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. The wheat variety survey was fully funded by the Montana Wheat & Barley Committee. Montana State University provided varietal characteristic information.

Plant researchers continually develop new grain varieties with promise of higher yields, improved baking and milling qualities and increased insect and disease resistance. Montana farmers test these new varieties in their fields with hopes of increasing their overall farm profits. Shifts occur in the acres of varieties planted as farmers discover what works or does not work for them.

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July, 2001

Winter Wheat

Neeley remained the leading variety of winter wheat seeded in Montana for the fourteenth consecutive year, with over 273 thousand acres planted in the state. Total acres planted decreased 5 percent from last year's number of nearly 289 thousand acres. Neeley was developed by the Agricultural Research Service, United States Department of Agriculture (USDA) in cooperation with the Idaho Agricultural Experiment Station and released in 1980. It is a semi-dwarf variety, with intermediate maturity.

Rampart remained in second position in 2001, with almost 187 thousand acres seeded this crop season. Rampart, a hard red winter wheat, was developed by the Montana Agricultural Experiment Station and released in 1996. It is an awned, red-chaffed, solid-stemmed variety. Kernels are hard red, with a mid-sized germ. Rampart is resistant to the wheat stem sawfly and to prevalent races of stem rust. It is susceptible to stripe rust, leaf rust, dwarf smut, and the Russian wheat aphid. Rampart has excellent milling and baking qualities.

Tiber remained in third place with just over 132 thousand acres seeded. Last year over 169 thousand acres were put in the ground. Tiber is a standard-height, hard red winter wheat variety released by the Montana Agricultural Experiment Station in 1987. Tiber is a bearded, brown-chaffed, stiff-strawed variety. It has a high yield potential, good shatter resistance, and good winter hardiness (similar to Redwin). Tiber's resistance to lodging and shattering is equal to Redwin, but shorter in straw height than Winalta. It also has moderate resistance to the leaf spot complex, but is susceptible to dwarf smut, stem rust, and very susceptible to stripe rust.

Morgan replaces Vanguard this year as the number four variety in Montana, with over 118 thousand acres planted in 2001. This accounted for close to 10 percent of the state's seeded acreage. Morgan is a semi-dwarf hard red winter wheat developed by the Crop Development Centre (CDC) at the University of Saskatchewan. It is recommended for the high winter stress areas of Montana and North Dakota.

These top four varieties accounted for 59.2 percent of the winter wheat acreage seeded in 2001. In 2000, these same four varieties accounted for 52.6 percent of the total acreage for the state.

Winter Wheat

Winter Wheat: 2001 Seeded Acreage and Percent of Total Seeded by Districts 1/

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Neeley	0.0	0.0	46.7	8.2	22.5	25.0	140.8	49.4	14.5	60.6	48.3	30.2	0.2	0.3	273.0	22.8
Rampart	0.0	0.0	140.8	24.7	0.0	0.0	36.5	12.8	0.0	0.0	9.4	5.9	0.0	0.0	186.7	15.6
Tiber	0.0	0.0	37.6	6.6	16.2	18.0	22.8	8.0	0.7	2.8	37.4	23.4	17.4	26.4	132.1	11.0
Morgan	0.3	5.7	90.1	15.8	1.1	1.2	18.2	6.4	5.6	23.2	1.9	1.2	1.0	1.5	118.2	9.9
Rocky	0.0	0.0	89.5	15.7	2.6	2.9	13.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0	105.5	8.8
Vanguard	0.0	0.0	67.3	11.8	0.0	0.0	7.7	2.7	0.0	0.0	3.5	2.2	0.0	0.0	78.5	6.5
Redwin	0.0	0.0	13.1	2.3	4.4	4.9	0.3	0.1	1.0	4.3	19.0	11.9	10.2	15.5	48.0	4.0
Big Horn	0.0	0.0	22.8	4.0	0.0	0.0	12.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	35.3	2.9
Winalta	0.0	0.0	2.3	0.4	15.8	17.6	0.3	0.1	0.0	0.0	0.0	0.0	11.5	17.4	29.9	2.5
Quantum 542	0.0	0.0	13.7	2.4	0.0	0.0	6.6	2.3	0.0	0.0	3.8	2.4	0.0	0.0	24.1	2.0
Nuwest*	0.0	0.0	10.3	1.8	0.0	0.0	10.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	20.6	1.7
Tomahawk	0.3	6.3	1.7	0.3	0.0	0.0	1.1	0.4	0.0	0.0	11.0	6.9	0.0	0.0	14.1	1.2
Roughrider	0.0	0.0	0.0	0.0	11.8	13.1	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.2	13.3	1.1
Hawk	0.0	0.0	2.3	0.4	0.0	0.0	0.6	0.2	0.0	0.0	6.1	3.8	0.0	0.0	9.0	0.8
Ransom	0.0	0.0	0.0	0.0	2.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	5.8	8.8	8.4	0.7
McGuire	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.7	0.3	1.2	5.0	3.1	1.1	1.7	8.4	0.7
Kestrel	0.0	0.0	2.9	0.5	3.6	4.0	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.7
Norstar	0.0	0.0	4.6	0.8	1.3	1.4	1.1	0.4	0.0	0.0	0.0	0.0	0.3	0.4	7.3	0.6
Promontory	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	5.1	3.2	0.0	0.0	5.2	0.4
Centurk	0.0	0.0	4.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.4
Judith	0.0	0.0	1.7	0.3	0.0	0.0	0.3	0.1	0.0	0.0	0.2	0.1	1.1	1.7	3.3	0.3
Stephens*	0.6	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.4	0.0	0.0	2.0	3.0	3.2	0.3
Other & Unknown	3.8	76.0	18.0	3.2	8.1	9.0	8.8	3.1	1.2	5.1	9.3	5.7	13.9	21.1	63.1	5.3
ALL VARIETIES	**5.0**	**100.0**	**570.0**	**100.0**	**90.0**	**100.0**	**285.0**	**100.0**	**24.0**	**100.0**	**160.0**	**100.0**	**66.0**	**100.0**	**1,200.0**	**100.0**

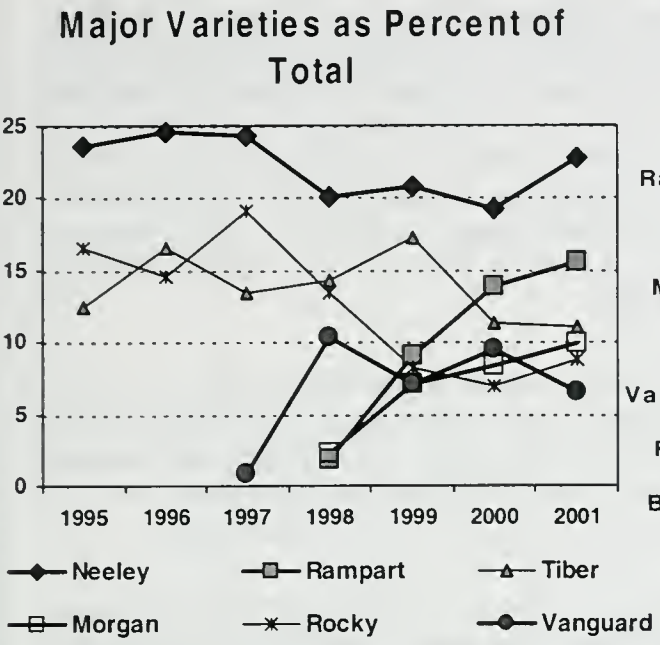
1/ Totals may not add due to rounding
*White wheat variety.

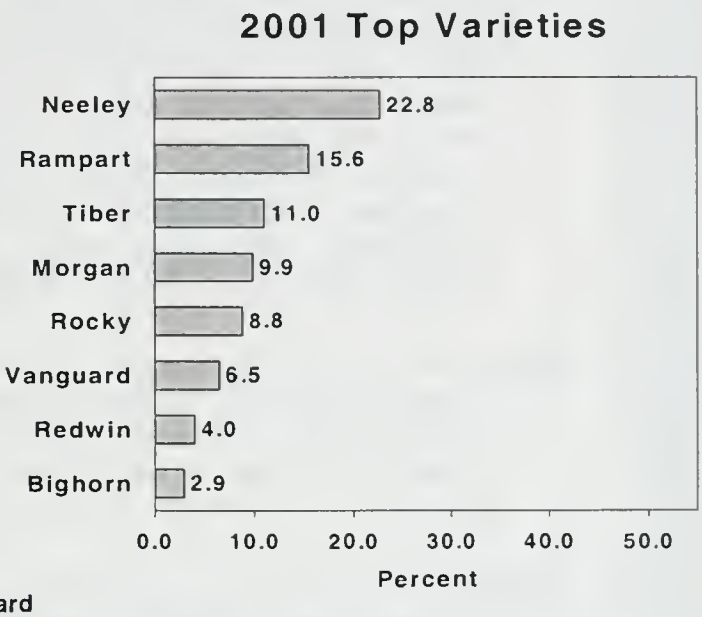
Winter Wheat: Percent of Total Seeded Acreage 1995-2001 & Seeded Acreage 2000-2001 1/

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1995	1996	1997	1998	1999	2000 2/	2001	2000 2/	2001
Neeley	23.6	24.6	24.3	20.0	20.8	19.2	22.8	288.6	273.0
Rampart	--	--	--	1.8	9.0	13.8	15.6	206.8	186.7
Tiber	12.4	16.5	13.4	14.2	17.3	11.3	11.0	169.3	132.1
Morgan	--	--	--	2.2	7.0	8.3	9.9	124.0	118.2
Rocky	16.5	14.6	19.1	13.4	8.2	6.9	8.8	103.6	105.5
Vanguard	--	--	0.8	10.3	7.0	9.4	6.5	140.5	78.5
Redwin	8.9	11.4	10.6	6.1	4.7	6.4	4.0	95.7	48.0
Bighorn	0.7	4.0	2.3	3.5	3.6	3.3	2.9	49.8	35.3
Winalta	2.8	3.5	1.9	2.9	1.7	1.1	2.5	17.1	29.9
Quantum 542	1.8	0.6	1.2	1.0	1.4	2.2	2.0	33.1	24.1
Nuwest *	--	--	0.1	--	0.5	0.4	1.7	6.4	20.6
Tomahawk	--	--	0.1	0.2	0.6	0.9	1.2	13.9	14.1
Roughrider	1.0	2.1	2.3	1.3	1.1	1.1	1.1	16.8	13.3
Hawk	2.4	0.9	1.7	1.3	2.0	0.7	0.8	10.6	9.0
Ransom	--	--	--	--	--	0.1	0.7	1.0	8.4
McGuire	--	--	--	--	0.0	0.6	0.7	9.3	8.4
Kestrel	0.4	1.4	4.0	1.3	1.4	0.9	0.7	13.0	8.2
Norstar	4.0	1.8	1.8	1.7	1.5	0.8	0.6	11.7	7.3
Promotory	--	--	--	0.7	0.1	0.2	0.4	2.9	5.2
Centurk	3.1	3.1	1.5	0.9	0.9	0.5	0.4	7.7	4.6
Judith	8.2	3.7	3.4	4.3	1.0	2.3	0.3	34.7	3.3
Stephens*	--	--	0.5	0.5	0.0	0.1	0.3	1.7	3.2
Others & Unknown	14.2	11.8	11.0	12.4	10.2	9.5	5.3	141.8	63.1
ALL VARIETIES	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**1,500.0**	**1,200.0**

1/ Totals may not add due to rounding
2/ Revised
*White wheat variety

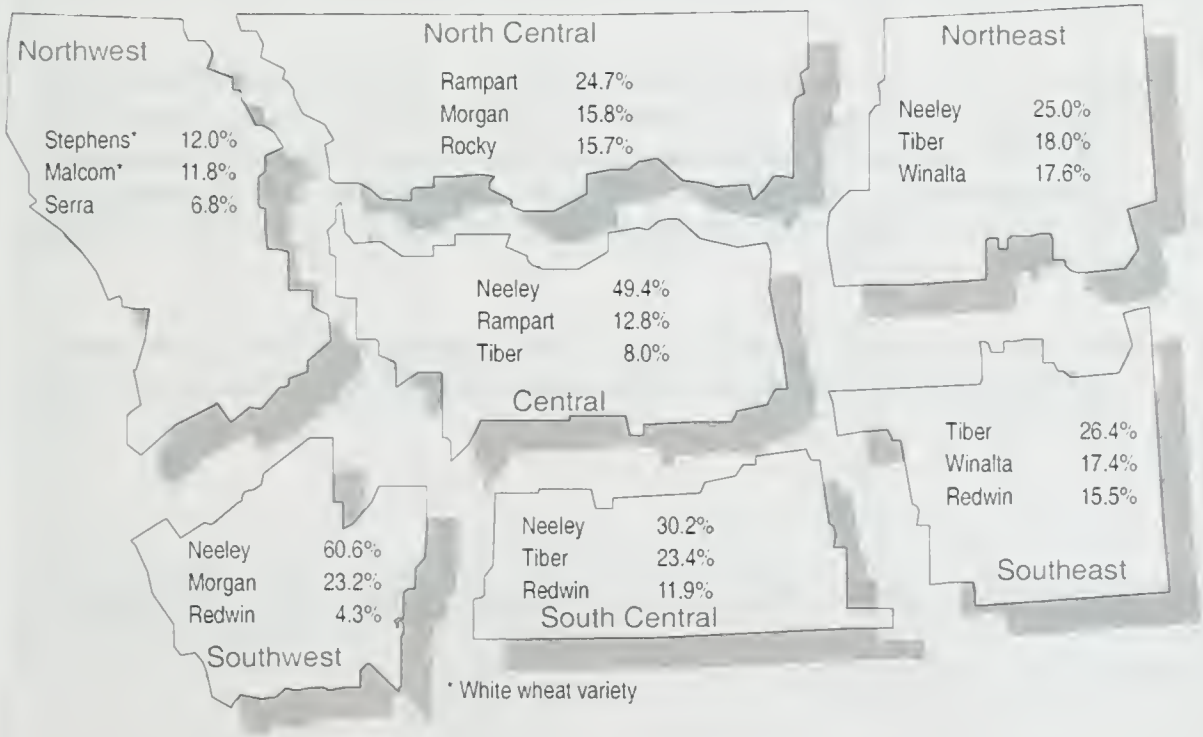
Winter Wheat





Top Three Varieties

Percent by District



Spring Wheat

McNeal was the leading spring wheat variety planted for the fourth consecutive year, accounting for over 48 percent of the seeded acreage, with more than 1.65 million acres planted. That is a jump of 5.7 percent in McNeal acres from 2000, while spring wheat acreage is up 1.5 percent in general this year. McNeal was developed by the Montana Agricultural Experiment Station and released in March 1995. It is a semi-dwarf, hard red spring wheat with red chaff and tan straw. Under Montana growing conditions, McNeal is moderately resistant to lodging and to prevalent races of stem rust and wheat streak mosaic virus. It is somewhat susceptible to leaf rust and stripe rust, and is also fairly vulnerable to Russian wheat aphid and the wheat stem sawfly.

Ernest moved into second place with 349 thousand acres planted this year. Last year Ernest was the third most popular variety with nearly 342 thousand acres. Ernest was developed by the North Dakota Agricultural Experiment Station and released in 1995. It is an awned, white chaffed, standard height, solid stemmed, hard red spring wheat. It is resistant to wheat stem sawfly, leaf rust, and stem rust.

Amidon fell to third place in ranking this year with 255 thousand acres planted. Amidon is an awned, standard height, hard red spring wheat cooperatively developed and released by North Dakota Agricultural Experiment Station and USDA in 1988. It is resistant to leaf rust and stem rust, with a leaf spotting rating better than Stoa and Len. It has exhibited an intermediate level of stem solidness. Amidon has a higher protein than Newana, and overall milling and baking qualities are equal to or better than Newana.

Fortuna took over fourth place from Westbred Rambo this year with over 185 thousand acres planted statewide. It is a beardless variety with white chaff and straw. It is a solid stem variety that is resistant to wheat stem sawfly. Fortuna is susceptible to Septoria and black chaff fungus. This spring wheat variety was developed at the North Dakota Agricultural Experiment Station with the Crops Research Division of the USDA Cooperating.

The top four varieties accounted for nearly 71.8 percent of the spring wheat acreage seeded in 2001. These same four varieties accounted for 71.8 percent in 2000 as well.

Spring Wheat

Spring Wheat: 2001 Seeded Acreage and Percent of Total Seeded by Districts 1/

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
McNeal	13.2	30.0	670.5	43.4	679.2	56.6	148.2	54.9	12.5	32.1	52.6	50.1	74.9	38.0	1,651.1	48.6
Ernest	0.0	0.0	239.5	15.5	84.0	7.0	4.1	1.5	0.0	0.0	1.9	1.8	19.5	9.9	349.0	10.3
Amidon	0.0	0.0	66.4	4.3	148.8	12.4	4.1	1.5	0.0	0.0	2.8	2.7	32.9	16.7	255.0	7.5
Fortuna	0.0	0.0	148.3	9.6	2.4	0.2	18.9	7.0	0.8	2.1	14.9	14.2	0.0	0.0	185.3	5.5
Westbred Rambo	0.0	0.0	103.5	6.7	4.8	0.4	5.9	2.2	0.0	0.0	1.4	1.3	0.0	0.0	115.6	3.4
Conan	0.0	0.0	108.2	7.0	1.2	0.1	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	109.9	3.2
Reeder	0.0	0.0	4.6	0.3	84.0	7.0	9.5	3.5	0.0	0.0	6.8	6.5	1.0	0.5	105.9	3.1
Westbred 926	10.3	23.3	17.0	1.1	0.0	0.0	25.9	9.6	3.8	9.7	6.0	5.7	3.3	1.7	66.3	2.0
Westbred 936	7.9	17.9	21.6	1.4	0.0	0.0	6.5	2.4	13.1	33.5	0.4	0.4	2.2	1.1	51.7	1.5
Hi-Line	0.3	0.7	23.2	1.5	6.0	0.5	11.1	4.1	4.9	12.6	0.6	0.6	3.3	1.7	49.4	1.5
Lew	0.0	0.0	29.4	1.9	6.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5	5.7	2.9	41.6	1.2
Grandin	0.0	0.0	1.5	0.1	32.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	7.7	3.9	41.6	1.2
Len	0.0	0.0	0.0	0.0	32.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	6.1	3.1	38.5	1.1
Stoa	0.0	0.0	9.3	0.6	13.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	5.7	2.9	28.2	0.8
Kulm	0.0	0.0	0.0	0.0	24.0	2.0	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	24.8	0.7
Newana	0.0	0.0	7.7	0.5	8.4	0.7	3.2	1.2	0.4	1.1	1.2	1.1	0.4	0.2	21.3	0.6
Keene	0.0	0.0	0.0	0.0	16.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	3.7	1.9	20.5	0.6
Scholar	0.0	0.0	13.9	0.9	1.2	0.1	2.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8	0.5
Sonja	0.0	0.0	13.9	0.9	3.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	0.5
Pristine	0.0	0.0	13.9	0.9	0.0	0.0	2.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.5
Parshall	0.0	0.0	0.0	0.0	14.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	0.4
Trenton	0.0	0.0	0.0	0.0	8.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	4.3	2.2	12.7	0.4
Other & Unknown	12.3	28.1	52.6	3.4	28.8	2.4	26.4	9.8	3.5	8.9	15.9	15.1	26.3	13.3	165.8	4.9
ALL VARIETIES	44.0	100.0	1,545.0	100.0	1,200.0	100.0	270.0	100.0	39.0	100.0	105.0	100.0	197.0	100.0	3,400.0	100.0

1/ Totals may not add due to rounding

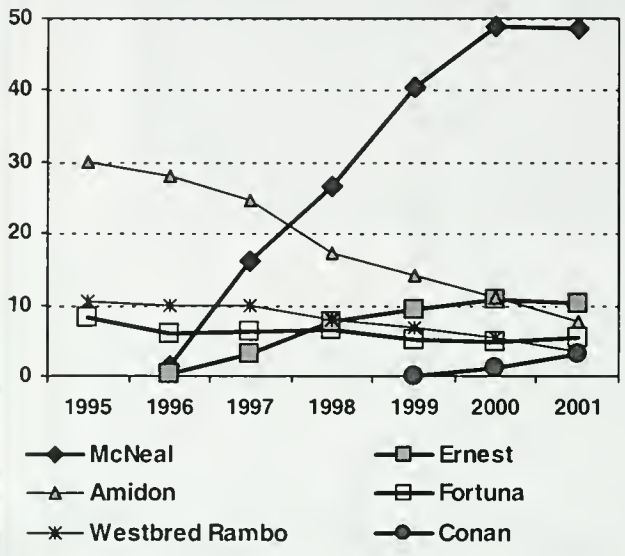
Spring Wheat: Percent of Total Seeded Acreage 1995-2001 & Seeded Acreage 2000-2001 1/

Variety	1995	1996	1997	1998	1999	2000 2/	2001	Seeded Acres (000) 2000 2/	2001
McNeal	--	1.3	16.2	26.5	40.4	48.8	48.6	1,561.8	1,651.1
Ernest	--	0.2	3.2	7.6	9.4	10.7	10.3	341.7	349.0
Amidon	29.9	28.0	24.7	17.2	14.2	10.9	7.5	347.4	255.0
Fortuna	8.3	5.9	6.3	6.5	5.0	4.9	5.5	155.5	185.3
Westbred Rambo	10.5	9.9	10.0	7.9	6.7	5.3	3.4	170.9	115.6
Conan	--	--	--	--	0.0	1.0	3.2	32.4	109.9
Reeder	--	--	--	--	--	0.1	3.1	3.4	105.9
Westbred 926	3.0	2.5	2.7	1.8	2.5	2.2	2.0	69.4	66.3
Westbred 936	0.3	1.4	1.0	1.6	1.7	3.5	1.5	113.4	51.7
Hi-Line	4.3	5.6	3.1	3.0	1.7	1.1	1.5	34.2	49.4
Lew	4.9	4.4	2.5	1.8	1.3	0.9	1.2	30.2	41.6
Grandin	7.3	8.8	8.9	6.2	3.1	3.3	1.2	107.1	41.6
Len	6.3	3.6	3.1	1.8	1.2	1.6	1.1	49.7	38.5
Stoa	3.6	6.1	4.5	3.4	1.5	0.8	0.8	24.9	28.2
Kulm	--	0.5	0.4	1.9	0.8	1.1	0.7	35.2	24.8
Newana	5.8	5.0	2.4	2.0	1.2	0.9	0.6	28.6	21.3
Keene	--	--	--	--	0.0	0.3	0.6	8.0	20.5
Scholar	--	--	--	--	--	0.0	0.5	0.8	17.8
Sonja	--	0.1	0.3	0.3	0.4	0.3	0.5	10.2	17.5
Pristine	--	--	--	--	--	0.0	0.5	0.0	16.1
Parshall	--	--	--	--	--	0.0	0.4	1.3	14.4
Trenton	--	--	--	--	0.4	0.2	0.4	6.3	12.7
Other & Unknown	15.8	16.7	10.7	10.5	8.5	2.1	4.9	217.6	165.8
ALL VARIETIES	100.0	100.0	100.0	100.0	100.0	100.0	100.0	3,350.0	3,400.0

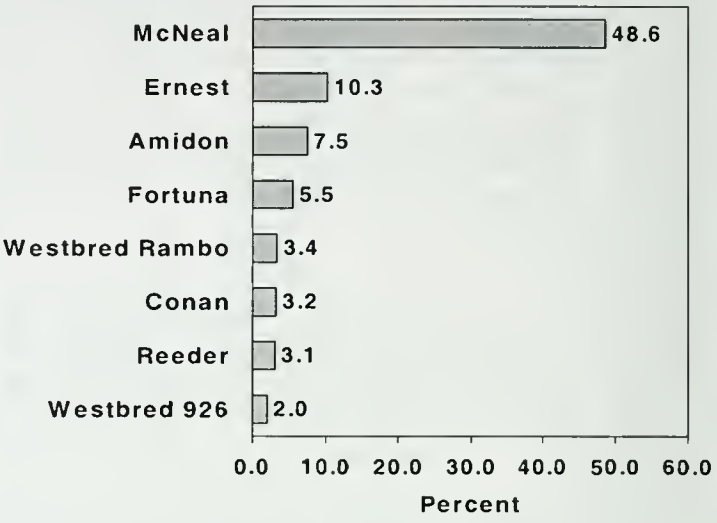
1/ Totals may not add due to rounding
2/ Revised

Spring Wheat

Major Varieties as Percent of Total

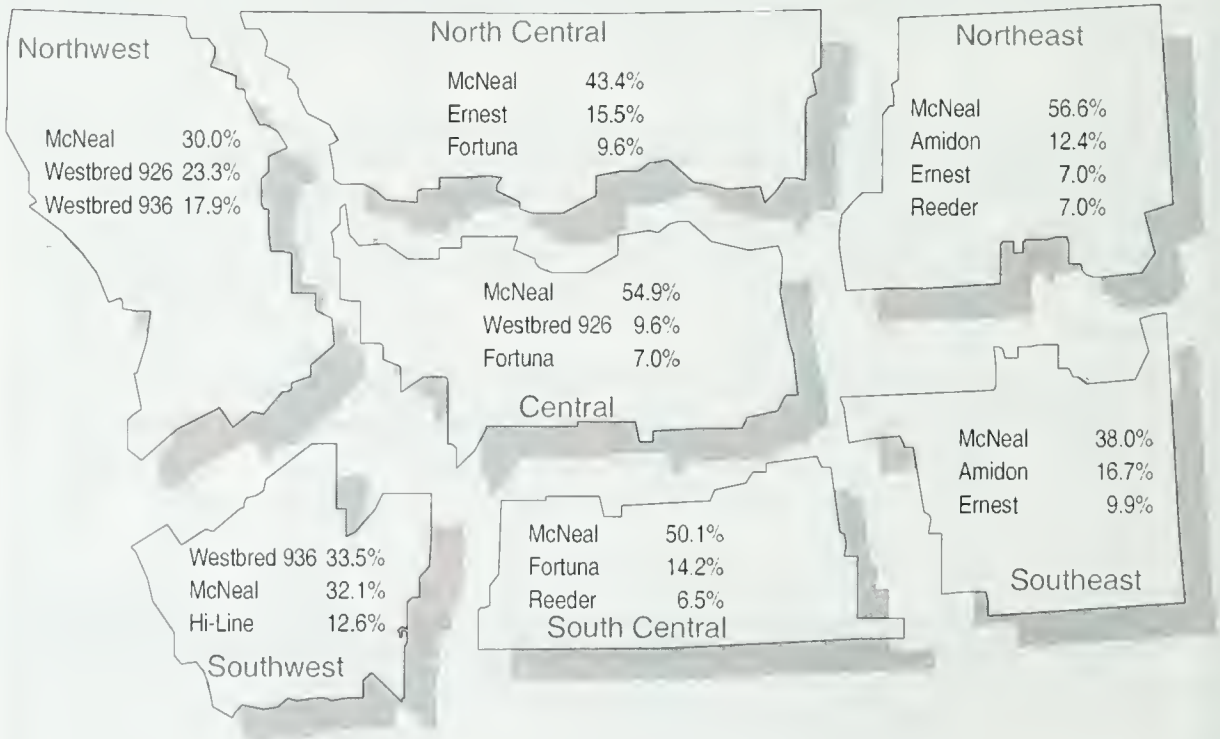


2001 Top Varieties



Top Three Varieties

Percent by District



Durum Wheat

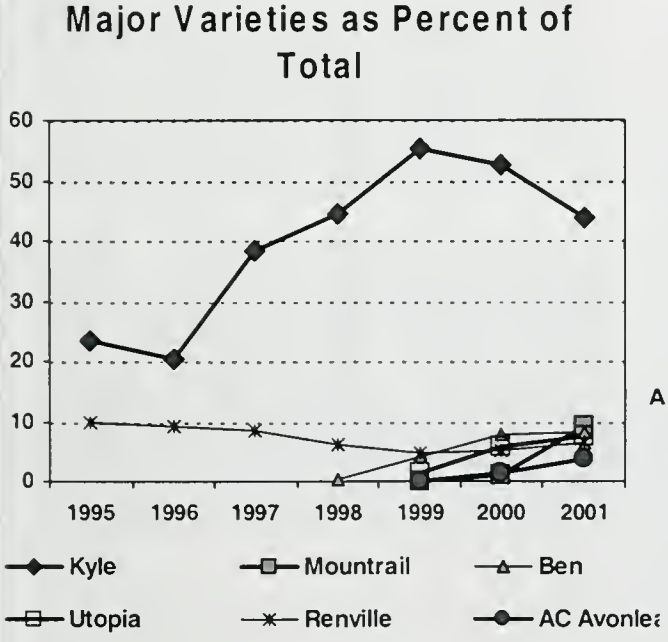
Kyle continued to be the leading durum variety for the fifth consecutive year. There were over 236 thousand acres planted in the state, accounting for 43.7 percent of the total seeded acres. Kyle was developed by the Agriculture Canada Research Station, Swift Current, Saskatchewan and released in 1984. Kyle is resistant to leaf and stem rust. It is moderately susceptible to tan spot and Septoria leaf spot and susceptible to loose smut.

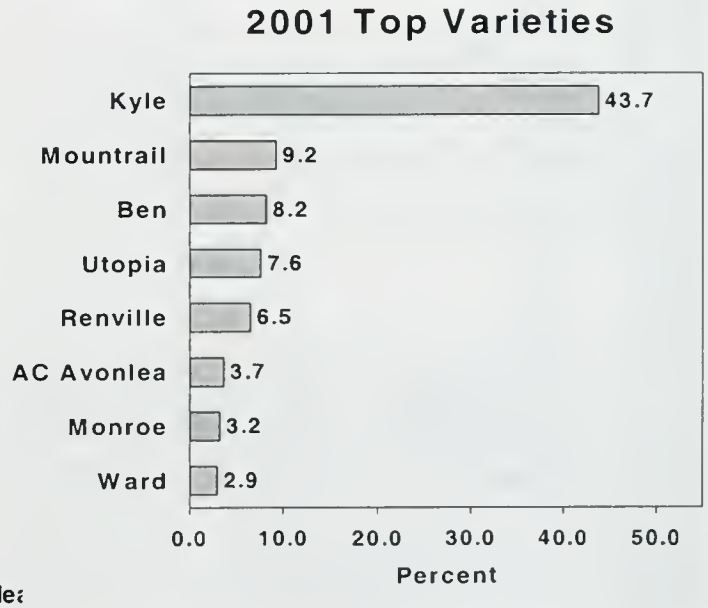
Mountrail moved up from fourteenth position to become the second most popular variety of durum wheat in the state. Almost 50 thousand acres were planted or 9.2 percent of the state's durum wheat. Mountrail was developed from the cross of D8479 and Renville by the North Dakota Agricultural Experiment Station, and was released in 1999. The variety has a high semolina extract with strong gluten. It is resistant to both leaf and stem rusts.

Ben took third place ranking this year with over 44 thousand acres planted or 8.2 percent of the state total for durum wheat. Ben was developed in North Dakota and released in 1996. This durum wheat is medium height, medium maturity, large kernel size with high protein. Ben is resistant to leaf rust, stem rust, and leaf spot complex. It is moderately susceptible to stripe rust.

Utopia fell one place to become the fourth most popular variety of durum wheat. Nearly 41 thousand acres were planted or 7.6 percent of the state's durum wheat. Utopia was established at the University of Arizona, Mesa Experimental Station in 1982. Utopia is a semi-dwarf spring durum with very early maturation and low susceptibility to lodging. It is black awned and has shown uniformity and yield stability within cultural regimes, high input fully irrigated, and low input with limited irrigation.

These top four varieties account for 68.7 percent of total acres seeded to durum wheat. This is comparable to the 67.1 percent reported in 2000 for the same varieties.





Durum Wheat

Durum Wheat: 2001 Seeded Acreage and Percent of Total Seeded by Districts 1/

Variety	North Central		Northeast		Central		Other Districts		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Kyle	11.1	17.0	224.3	51.1	0.7	3.7	0.0	0.0	236.1	43.7
Mountrail	0.0	0.0	49.6	11.3	0.0	0.0	0.0	0.0	49.6	9.2
Ben	9.2	14.1	28.1	6.4	0.0	0.0	7.1	40.6	44.4	8.2
Utopia	37.8	58.2	0.0	0.0	3.0	16.3	0.0	0.0	40.8	7.6
Renville	0.0	0.0	34.2	7.8	0.0	0.0	1.0	5.8	35.2	6.5
AC Avonlea	1.7	2.6	18.4	4.2	0.0	0.0	0.0	0.0	20.1	3.7
Monroe	0.0	0.0	17.1	3.9	0.0	0.0	0.0	0.0	17.1	3.2
Ward	0.0	0.0	15.8	3.6	0.0	0.0	0.0	0.0	15.8	2.9
Vic	0.0	0.0	8.3	1.9	0.0	0.0	0.0	0.0	8.3	1.5
Sceptre	0.5	0.7	6.6	1.5	1.2	6.5	0.0	0.0	8.3	1.5
Maier	0.0	0.0	3.5	0.8	0.0	0.0	0.9	4.9	4.4	0.8
Munich	0.0	0.0	0.9	0.2	0.0	0.0	2.0	11.7	2.9	0.5
Stockholm	2.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.5
Medora	0.0	0.0	2.2	0.5	0.0	0.0	0.0	0.0	2.2	0.4
Crosby	0.0	0.0	1.8	0.4	0.0	0.0	0.0	0.0	1.8	0.3
Voss	0.0	0.0	1.3	0.3	0.0	0.0	0.0	0.0	1.3	0.2
Wacoma	0.0	0.0	1.3	0.3	0.0	0.0	0.0	0.0	1.3	0.2
Kamut	0.0	0.0	0.9	0.2	0.0	0.0	0.0	0.0	0.9	0.2
Other & Unknown	1.9	3.1	24.7	5.6	13.6	73.5	6.5	37.0	46.7	8.9
ALL VARIETIES	**65.0**	**100.0**	**439.0**	**100.0**	**18.5**	**100.0**	**17.5**	**100.0**	**540.0**	**100.0**

1/ Totals may not add due to rounding

Durum Wheat: Percent of Total Seeded Acreage 1995-2001 & Seeded Acreage 2000-2001 1/

Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1995	1996	1997	1998	1999	2000 2/	2001	2000 2/	2001
Kyle	23.4	20.4	38.4	44.5	55.3	52.5	43.7	252.0	236.1
Mountrail	--	--	--	--	0.0	0.9	9.2	4.5	49.6
Ben	--	--	--	0.2	4.1	7.8	8.2	37.4	44.4
Utopia	--	--	--	--	1.4	5.8	7.6	28.0	40.8
Renville	10.0	9.0	8.4	6.0	4.8	5.2	6.5	24.8	35.2
AC Avonlea	--	--	--	--	0.0	1.4	3.7	6.9	20.1
Monroe	11.1	20.5	14.1	7.4	4.8	2.9	3.2	13.8	17.1
Ward	4.7	5.4	1.9	1.9	4.4	2.3	2.9	11.0	15.8
Vic	17.7	13.9	7.4	8.6	8.1	2.6	1.5	12.7	8.3
Sceptre	3.8	3.1	5.1	6.8	3.4	2.9	1.5	14.0	8.3
Maier	--	--	--	--	--	0.1	0.8	0.5	4.4
Munich	--	--	--	--	1.0	0.9	0.5	4.5	2.9
Stockholm	--	--	--	0.4	0.4	0.0	0.5	0.2	2.8
Medora	6.0	2.4	8.7	6.6	3.3	3.5	0.4	16.8	2.2
Crosby	3.5	7.8	5.1	0.7	0.9	0.4	0.3	2.0	1.8
Voss	--	--	1.0	4.2	--	0.0	0.2	0.0	1.3
Wacoma	--	--	--	--	0.3	0.1	0.2	0.3	1.3
Kamut	0.3	0.5	0.7	0.1	1.4	0.5	0.2	2.2	0.9
Other & Unknown	19.5	17.0	9.2	12.6	6.4	10.2	8.9	48.4	46.7
ALL VARIETIES	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**480.0**	**540.0**

1/ Totals may not add due to rounding
2/ Revised

Barley

Montana farmers planted 1.1 million acres of barley in 2001, down 150,000 acres from last year. Nearly 49 percent of the acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association* for use in Montana. The top variety seeded in Montana was Harrington, maintaining its position for the eighth consecutive year.

Malting Varieties

Harrington* remained the top variety planted in the state for the eighth year in a row. It was seeded on over 500 thousand acres or 45.5 percent of Montana's barley acreage. Harrington is the most popular variety of barley recommended by the American Malting Barley Association (AMBA) for planting in Montana. It is a two-rowed malting barley developed by the University of Saskatchewan. It is two to three days earlier than Klages and has better lodging resistance. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

B 1202* maintained the second place malting variety position for the sixth consecutive year with 60 thousand acres or 5.5 percent of the barley planted. It is an AMBA approved, two-rowed spring barley. The spike is lax in density and nodding. The awn on the lemma is long and rough. Rachilla, rachis, and glume hairs are all long. The awns are equal to the length of the hair-covered glume. The hull is adhered and slightly to semi-wrinkled and the aleurone is colorless. B 1202 is moderately susceptible to net blotch, scald, and stripe rust.

Moravian 37 moved up to rank third among malting barley varieties with a significant increase in seeded acreage to 40.7 thousand, or 3.7 percent of the state's acreage. This variety is a two-rowed spring malt barley released by Coors Brewing Company. Moravian 37 has slightly higher yield and test weight than Galena. Height and straw strength are similar to Galena. Heading date is earlier than Galena.

B Merit* rounds out the top four malting varieties again in 2001, with 12.4 thousand acres seeded statewide. B Merit is a two-rowed, mid-maturing, mid-dense head barley adapted to the InterMountain West barley producing region. Glume hair is long and confined to a band. Seed is covered, finely wrinkled with wax present and the aleurone is colorless. It is resistant to net blotch and moderately resistant to scald. B Merit is a spring barley bred and developed by Busch Agricultural Resources, Inc, and was recommended by the AMBA in 2001 for use in Montana.

Feed Varieties

Haybet remained in the lead position for feed barley for the second year in a row, with almost 113 thousand acres planted this year, which accounted for 10.2 percent of the total barley acres seeded in Montana for 2001. This is 31.1 thousand more acres than the 81.5 thousand acres planted in 2000. Haybet was developed cooperatively by the agricultural research service, united states department of agriculture (USDA), and the Montana agricultural experiment station in 1989. It is a two-rowed, hooded, white-kerneled spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

Baronesse remains the second most popular feed barley in 2001. It represents 5.2 percent of the total acreage or 57.6 thousand acres for feed barley seeded in Montana for 2001. This is compared to the 77.0 thousand acres planted last year. Developed in Germany, it is a two-rowed, rough awned spring barley. Baronesse is medium-short in height and medium in maturity. It has excellent irrigated yield potential and is highly resistant to lodging and moderately resistant to net blotch.

Gallatin became the third place choice for feed barley this year with 34.2 thousand acres seeded or 3.1 percent of the barley acreage state-wide. This is compared to the 27.4 thousand acres planted in 2000. Gallatin is a white-kerneled, rough-awned feed variety released by the USDA-ARS and the Montana and Idaho agricultural experiment stations in 1986. Gallatin has mid-lax, mid-long spikes that, like Hector's, are semi-nodding before maturity and nodding at maturity.

Westford is the fourth leading feed-type variety this year with over 30 thousand acres or 2.8 percent of the state-wide barley acres seeded in 2001. This is compared to the 15,400 acres planted in 2000, which accounted for 1.2 percent of the total barley acres planted last year. Western plant breeders released Westford in 1988. It is a six-row hooded forage variety with standard height, stiff straw, late maturity, medium test weight, and good yield potential under intermediate to high rainfall. It is moderately tolerant to leaf rust, powdery mildew, barley yellow-dwarf, and leaf blight. Westford is susceptible to stem rust.

Barley

Barley: 2001 Seeded Acreage and Percent of Total Seeded by Districts 1/

Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington *	1.8	6.1	362.2	64.1	17.4	12.4	81.3	42.8	20.1	40.2	14.7	18.4	2.7	6.0	500.2	45.5
Haybet	4.9	16.4	21.5	3.8	42.4	30.3	13.9	7.3	1.8	3.6	8.6	10.7	19.5	43.3	112.6	10.2
B 1202 *	0.0	0.0	35.6	6.3	0.3	0.2	13.7	7.2	0.0	0.0	10.4	13.0	0.0	0.0	60.0	5.5
Baronesse	9.0	30.1	17.5	3.1	7.0	5.0	10.5	5.5	8.6	17.2	4.6	5.7	0.4	0.9	57.6	5.2
Moravian 37	0.0	0.0	22.6	4.0	1.8	1.3	0.0	0.0	0.0	0.0	16.3	20.4	0.0	0.0	40.7	3.7
Gallatin	1.7	5.7	1.1	0.2	2.4	1.7	13.5	7.1	5.0	10.0	7.9	9.9	2.6	5.7	34.2	3.1
Westford	3.7	12.2	2.3	0.4	4.3	3.1	8.6	4.5	8.4	16.8	2.6	3.2	0.4	0.9	30.3	2.8
Hector	0.0	0.0	1.1	0.2	8.8	6.3	13.1	6.9	0.2	0.4	1.4	1.8	4.4	9.7	29.0	2.6
Bowman	0.0	0.0	12.4	2.2	6.6	4.7	0.2	0.1	0.0	0.0	3.4	4.3	1.4	3.2	24.0	2.2
Lewis	0.8	2.5	4.0	0.7	5.5	3.9	3.0	1.6	1.1	2.2	0.0	0.0	2.1	4.7	16.5	1.5
Horsford	0.7	2.2	1.7	0.3	2.9	2.1	5.5	2.9	0.0	0.0	1.8	2.2	1.3	2.8	13.9	1.3
Piroline	0.0	0.0	6.8	1.2	0.6	0.4	3.6	1.9	0.0	0.0	1.0	1.2	0.5	1.2	12.5	1.1
B Merit *	0.0	0.0	8.5	1.5	0.0	0.0	2.1	1.1	0.8	1.6	1.0	1.2	0.0	0.0	12.4	1.1
Dolly	0.0	0.0	9.6	1.7	0.0	0.0	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	1.0
Garnet	0.0	0.0	10.2	1.8	0.0	0.0	0.0	0.0	0.8	1.6	0.0	0.0	0.0	0.0	11.0	1.0
Stark	0.0	0.0	0.0	0.0	7.8	5.6	0.0	0.0	0.0	0.0	0.3	0.4	1.3	2.8	9.4	0.9
B 2601 *	0.0	0.0	8.5	1.5	0.0	0.0	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	9.1	0.8
Foster *	0.0	0.0	9.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.8
Robust	0.0	0.0	0.0	0.0	8.3	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.8
Valier	0.2	0.8	1.1	0.2	2.9	2.1	1.9	1.0	0.0	0.0	0.3	0.4	0.0	0.1	6.4	0.6
Menuet	4.9	16.3	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.0	0.0	6.3	0.6
Other & Unknown	2.3	7.7	28.2	5.0	21.0	15.0	16.6	8.8	3.2	6.4	5.4	6.8	8.4	18.7	85.1	7.7
ALL VARIETIES	**30.0**	**100.0**	**565.0**	**100.0**	**140.0**	**100.0**	**190.0**	**100.0**	**50.0**	**100.0**	**80.0**	**100.0**	**45.0**	**100.0**	**1,100.0**	**100.0**

1/ Totals may not add due to rounding

* American Malting Barley Association, Inc recommended for malting and brewing for Montana

Barley: Percent of Total Seeded Acreage 1995-2001 & Seeded Acreage 2000-2001 1/

Variety	1995	1996	1997	1998	1999	2000 2/	2001	Seeded Acres (000) 2000 2/	Seeded Acres (000) 2001
Harrington *	24.9	32.6	33.4	42.1	49.6	49.9	45.5	623.6	500.2
Haybet	1.5	1.4	2.1	3.0	4.5	6.5	10.2	81.5	112.6
B 1202 *	6.1	5.4	5.1	4.7	5.2	5.4	5.5	67.4	60.0
Baronesse	11.9	12.2	15.6	12.1	7.6	6.2	5.2	77.0	57.6
Moravian 37	--	--	--	--	0.1	1.5	3.7	18.9	40.7
Gallatin	6.9	5.7	5.8	4.6	4.0	2.2	3.1	27.4	34.2
Westford	--	--	--	--	0.1	1.2	2.8	15.4	30.3
Hector	13.5	10.2	8.8	6.8	4.9	3.7	2.6	46.2	29.0
Bowman	6.9	6.0	4.7	3.1	2.7	2.8	2.2	34.9	24.0
Lewis	2.5	2.4	1.5	2.1	2.3	1.5	1.5	19.0	16.5
Horsford	1.2	2.3	1.7	2.1	1.7	2.4	1.3	29.9	13.9
Piroline	4.3	3.0	3.4	2.2	1.9	1.1	1.1	13.3	12.5
B Merit *	0.0	0.0	0.0	0.3	1.2	1.6	1.1	20.1	12.4
Dolly	--	--	--	--	--	--	1.0	--	11.5
Garnet	--	--	--	--	--	--	1.0	--	11.0
Stark	0.5	0.7	0.8	0.9	1.9	0.9	0.9	11.1	9.4
B 2601 *	1.8	1.3	1.8	0.8	1.0	1.0	0.8	12.8	9.1
Foster *	--	--	--	--	--	--	0.8	--	9.0
Robust	--	--	--	--	--	0.2	0.8	2.0	8.3
Valier	--	--	--	--	--	0.1	0.6	1.0	6.4
Menuet	0.9	1.1	0.7	0.9	0.6	0.8	0.6	9.4	6.3
Other & Unknown	17.1	15.7	14.6	14.3	10.7	11.0	7.7	139.1	85.1
ALL VARIETIES	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**1,250.0**	**1,100.0**

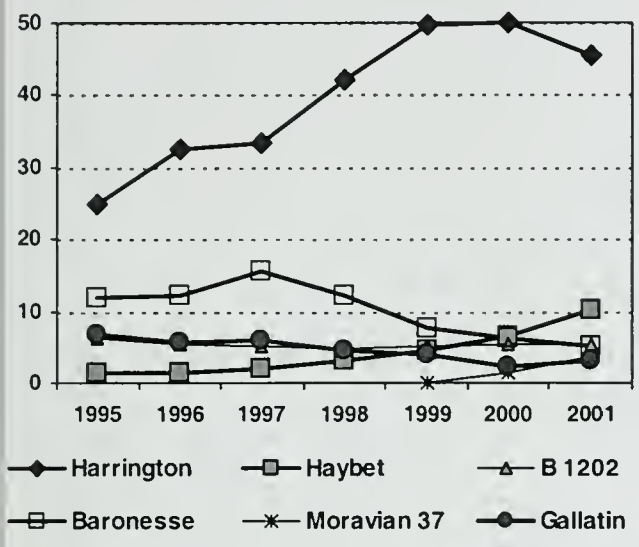
1/ Totals may not add due to rounding.

2/ Revised

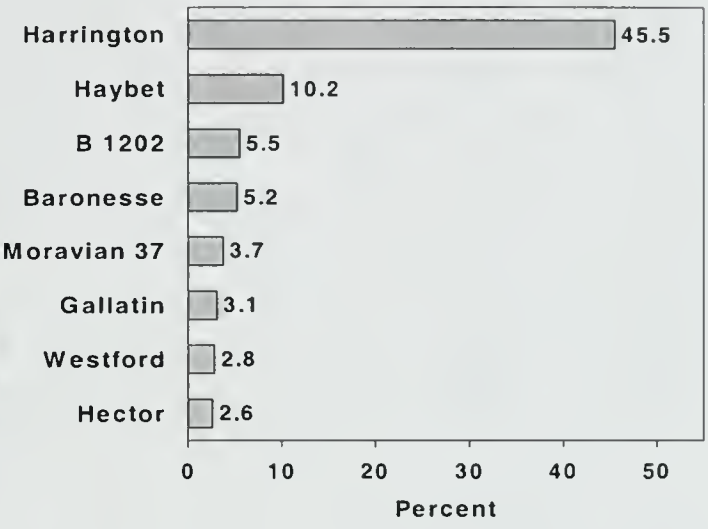
* American Malting Barley Association, Inc recommended for malting and brewing in Montana

Barley

Major Varieties as Percent of Total

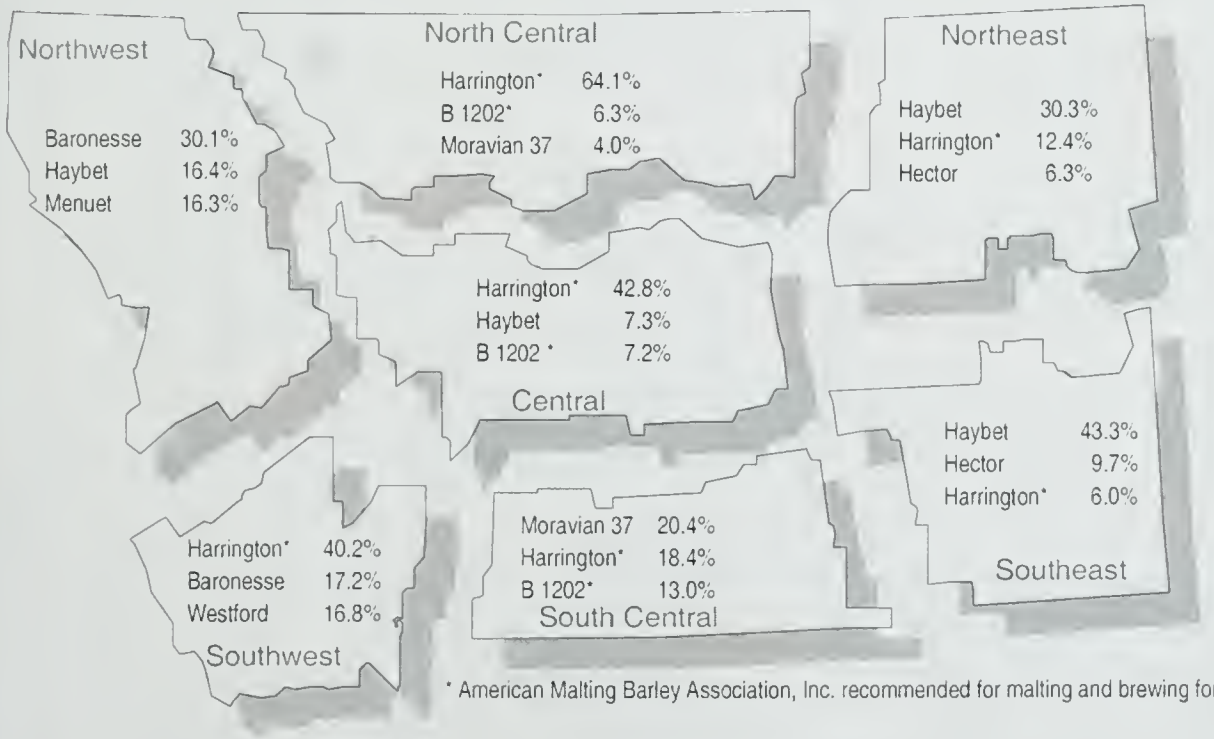


2001 Top Varieties



Top Three Varieties

Percent by District



* American Malting Barley Association, Inc. recommended for malting and brewing for Montana

Montana's Rank

Montana's Rank among the Larger **Winter Wheat** Producing States		
State	2001 Seeded Acreage (000)	Rank
Kansas	9,900	1
Oklahoma	5,700	2
Texas	5,700	2
Colorado	2,400	3
Washington	1,850	4
Nebraska	1,800	5
South Dakota	1,300	6
Montana	**1,200**	**7**
Arizona	1,100	8
Ohio	950	9

Montana's Rank among the Larger **Spring Wheat** Producing States		
State	2001 Seeded Acreage (000)	Rank
North Dakota	6,800	1
Montana	**3,400**	**2**
Minnesota	1,950	3
South Dakota	1,700	4
Washington	640	5

Montana's Rank among the Larger **Durum Wheat** Producing States		
State	2001 Seeded Acreage (000)	Rank
North Dakota	2,300	1
Montana	**540**	**2**
Arizona	88	3
California	85	4
South Dakota	25	5

Montana's Rank among the Larger **Barley** Producing States		
State	2001 Seeded Acreage (000)	Rank
North Dakota	1,770	1
Montana	**950**	**2**
Idaho	730	3
Washington	490	4
Minnesota	240	5